

[Table 2]

	Type of comonomer	Amount of Comonomer mol%	Methyl branch /1000C	Hexyl branch /1000C	$[\eta]$ dl/g	*1 MFR g/10min	Mw/Mn	*2 wt%	*3 wt%	*4 wt%	*5 wt%	*6 wt%	*7 Density g/cm ³	Amount of C10-soluble component wt%	*8
Example 16	-	0.0	<0.1	<0.1	3.36	3.29	0.05	22.5	-	-	-	-	0.968	-	-
Example 17	1-butene	0.7	<0.1	<0.1	3.24	3.18	0.06	21.4	0.5	9.0	16.2	9.5	1.5	0.957	0.05
Example 18	1-butene	0.6	<0.1	<0.1	3.01	-	not measured	14.8	-	-	-	-	0.950	-	-
Comparative Example 5	1-butene	0.8	0.6	<0.1	1.76	1.64	1.85	3.3	0.2	11.1	10.5	15.3	1.6	0.952	0.06
Comparative Example 6	-	0.0	0.6	-	1.23	1.10	15	6.0	-	-	-	-	0.971	-	-
Comparative Example 7	1-butene	0.8	0.3	<0.1	3.34	3.29	0.05	18.3	9.7	20.0	46.0	20.4	9.4	0.951	0.36
															0.17

*1 the value of $1.85 \times \text{MFR}^{-0.192}$ in the case of $\text{MFR} < 1$ and the value of $1.85 \times \text{MFR}^{-0.213}$ in the case of $\text{MFR} \geq 1$.

*2 the amount of components with 2500,000 PE conversion molecular weight measured by GPC-IR in components eluted at $\geq 105^\circ\text{C}$ in TREF

*3 the amount of components eluted at $\geq 105^\circ\text{C}$ in TREF

*4 the amount of components eluted at $\geq 106^\circ\text{C}$ in TREF

*5 the amount of components with $\geq 10,000$ PE conversion molecular weight in components eluted at $\leq 75^\circ\text{C}$ in PX

*6 the ratio of components dissolved at $\leq 75^\circ\text{C}$ in PX to the whole copolymer before dissolution.

*7 the ratio of components with $\geq 10,000$ PE conversion molecular weight in components eluted at $\leq 75^\circ\text{C}$ in PX to the whole copolymer before dissolution.

*8 the value of $80 \times \exp(-100 \times (d - 0.88)) + 0.1$ in the case $\text{MFR} \leq 10$ g/10 min and the value of $80 \times (\text{MFR} - 9)^{0.26} \times \exp(-100 \times (d - 0.88)) + 0.1$ in the case $\text{MFR} > 10$ g/10 min.